

**Abstract**

An arrangement is determined to be standard which comprises a converter, an inverter, a smoothing condenser connected between the converter and the inverter, and reactors each connected between the connection point of each pair of IGBT switches of the converter and the output terminal of each phase of the AC power source, the converter comprising three pairs of IGBT switches for three phases, each pair of IGBT switches being serially connected to one another and each pair of IGBT switches being connected in parallel to one another, and first diodes each being connected in reversed polarity and in parallel to each IGBT switch, the inverter comprising three pairs of IGBT switches; each pair of IGBT switches being serially connected to one another and each pair of IGBT switches being connected in parallel to one another, and diodes each being connected in reversed polarity and in parallel to each IGBT switch, and is easily dealt with various types of power modules by omitting a part of converter components and/or a part of inverter components according to required specification.